48V200Ah

RACK MOUNTED LI-ION BATTERY

SAFETY

+ Prismatic $LiFePO_4$ cells-3.2V205Ah, Longer cycle life and much more safety.
+ Low voltage system, safety for application.
+ 3rd part cycle life & Safety & Performance test for cell.
+ UN38.3 certification for system.

SCALABILITY

+ Parallel support for more energy.
+ Optional accessories for LCD display, GPS Anti-theft.

DESIGN

+ Standard 19" rack design.
+ Flexible and easily installation.
+ -20~+55°C widely temperature range.
+ Maintenance free.

BATTERY MANAGEMENT SYSTEM

+ Independent protection for charge and discharge.
+ SOC, SOH display and PC software for detailed operation.
+ OVP, LVP, OCP, OTP, LTP protection.
+ RS485,CAN, RS232 communication port.

For more information, contact with: sales@ritarpower.com

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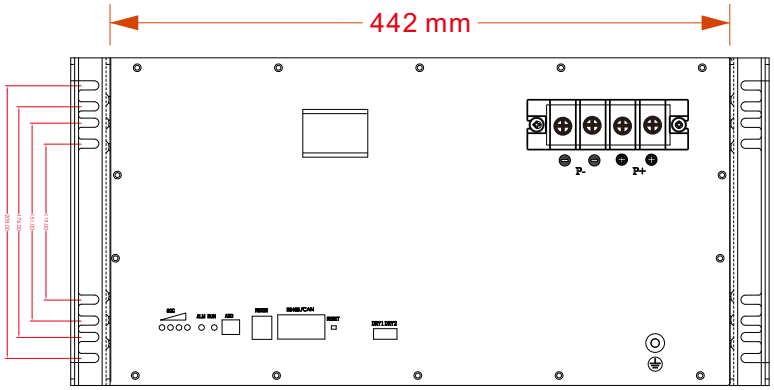
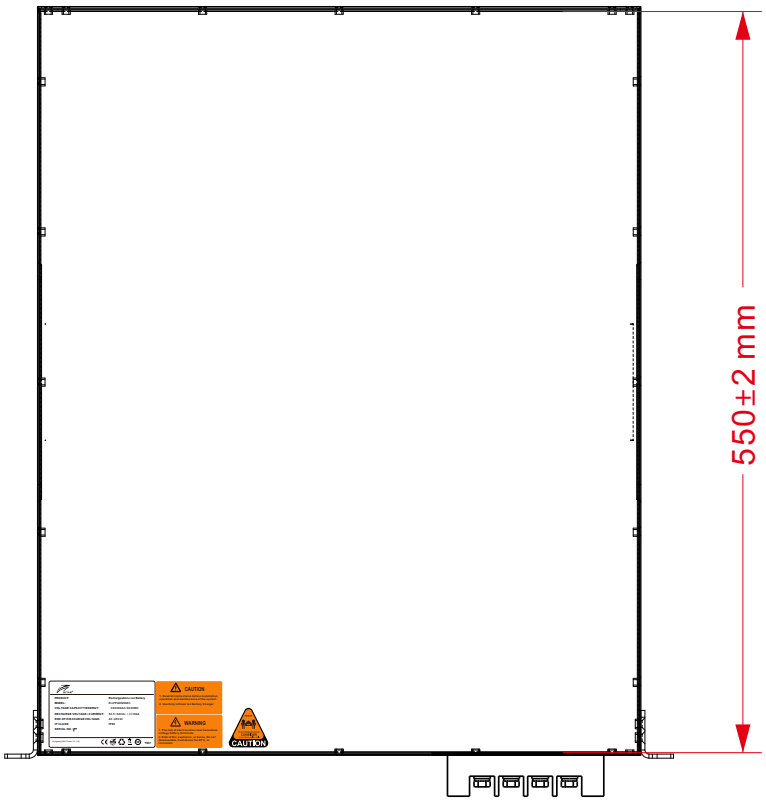
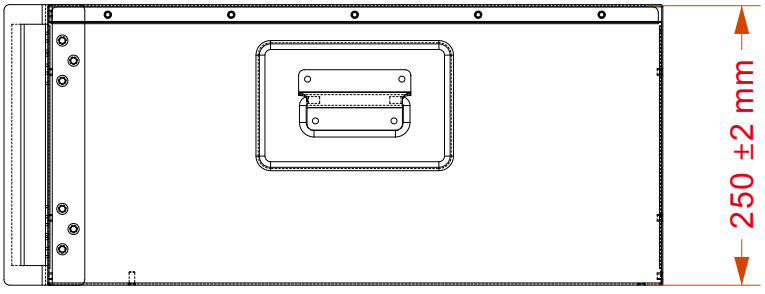
RACK MOUNTED LI-ION BATTERY SPECIFICATION

Part Number	8010480020001
Model	R-LFP48V200Ah
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	200
Total Energy [Wh]	9600
Dimension (W*D*H, mm)	442*550*250
Weight [Kg]	78
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	150A @10S
Charging Voltage [V]	52.5~54.0
End of Dicharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C
Cycle Life	>4000
Designed Calendar Life	10 Years
Communication interface	RS232, CAN, RS485
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support

R-LFP48V200Ah Dimension







48V
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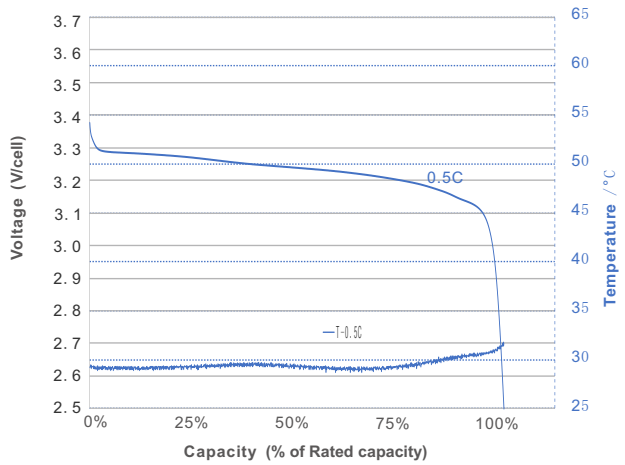
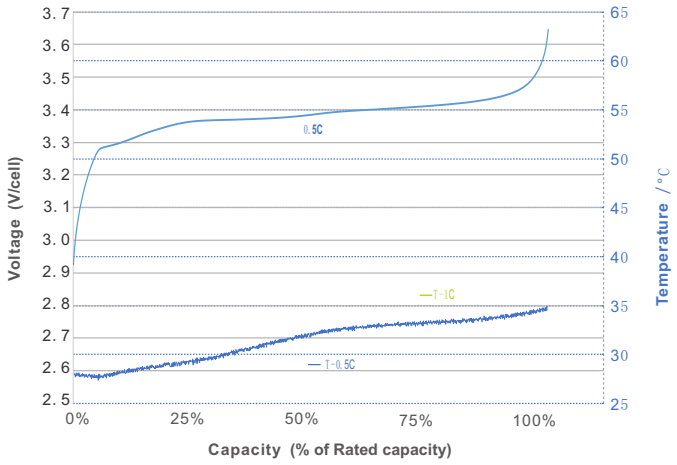
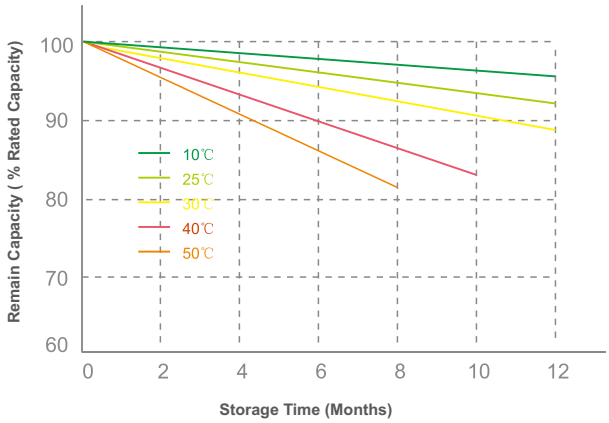
Different Discharge Rate and Temperature Characteristic



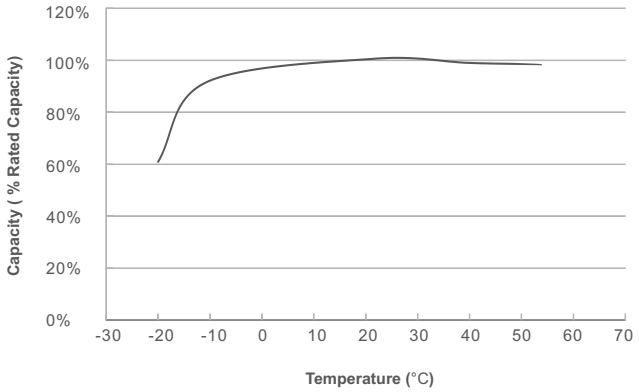
Different Charge Rate and Temperature Characteristic



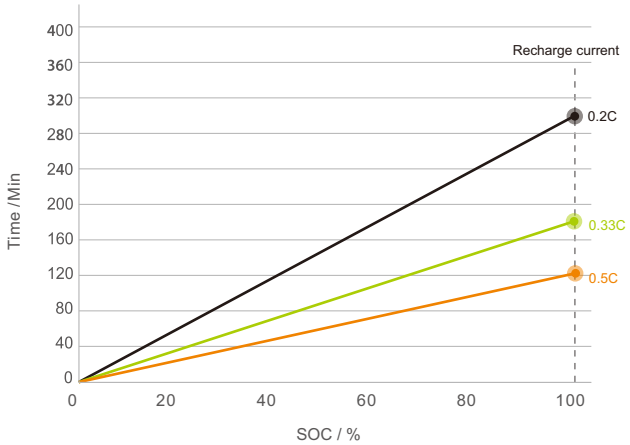
Different Temperature Self Discharge Curve



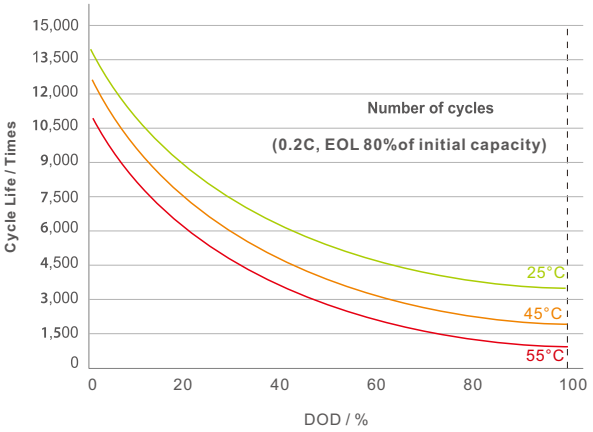
Capacity with Different Temperature



Typical Recharge Time



Typical Cycle Life



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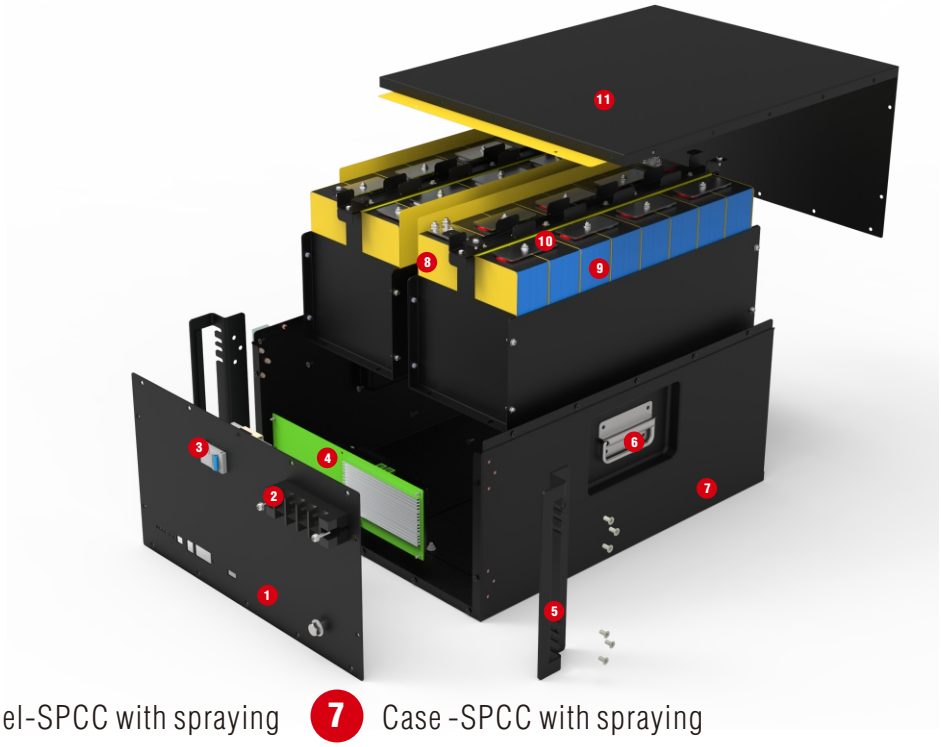
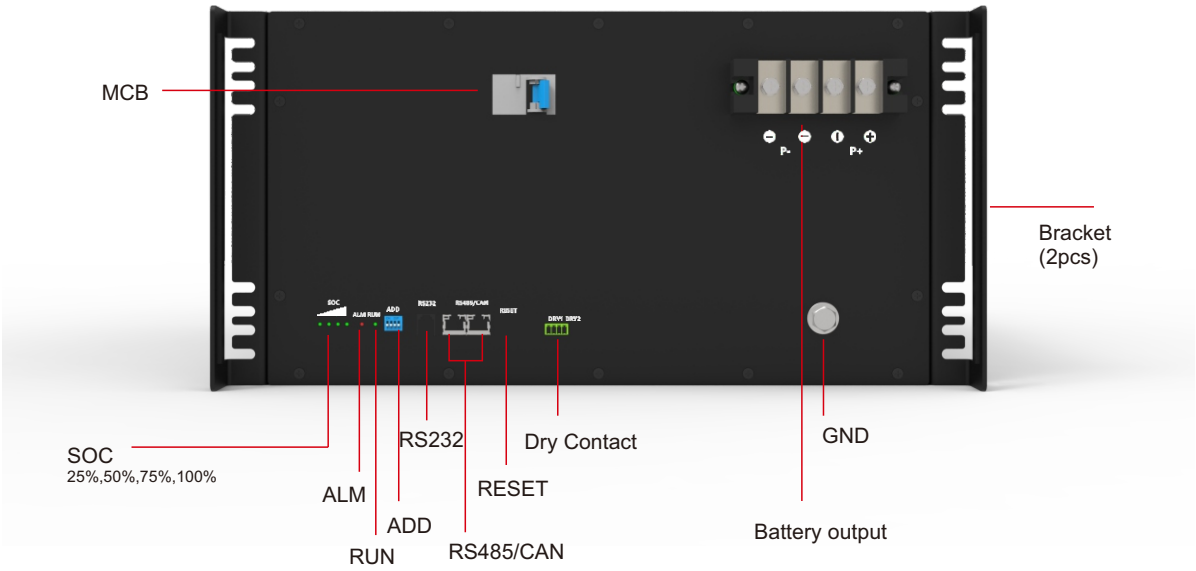
internal structure



1. Front Panel-SPCC with spraying
2. Power Terminal -100A
3. MCB -DC 125A
4. BMS -Ritar 15S 100A
5. Brackets-SPCC with spraying
6. Handle- Stainless steel
7. Case -SPCC with spraying
8. Epoxy board
9. LiFePO4 cell - 3.2V 205Ah, 1P 15S
10. Aluminum - AL1060
11. Top Cover -SPCC with spraying

Front Panel



LED Indicator Description

Status	Nominal Warning Protection	RUN	ALM	SOC				Description
Shut down	Dormancy	OFF	OFF	OFF	OFF	OFF	OFF	
Standby	Nominal	Flash 1	OFF	Follow module capacity				Standby
	Warning	Flash 1	Flash 3					Module at low voltage
Charge	Nominal	ON	OFF	Follow module capacity				
	Warning	ON	Flash 3					
	Over-charge Protection	ON	OFF	ON	ON	ON	ON	LED turn to standby if no power supply
	Temperature, over-current, Failure protection	OFF	OFF	OFF	OFF	OFF	OFF	Stop charging
Discharge	Nominal	ON	OFF	Follow module capacity				
	Warning	ON	Flash 3					
	Under voltage Protection	OFF	OFF	OFF	OFF	OFF	OFF	Stop discharging
	Temperature, over-current, short circuit, failure protection	OFF	ON	OFF	OFF	OFF	OFF	Stop discharging
Failure		OFF	ON	OFF	OFF	OFF	OFF	Stop charging and discharging

Note:
Flash 1: light 0.25s/off 3.75s
Flash 2: light 0.5s/ off 0.5s
Flash 3: light 0.5s / off 1.5s

RESET Button

When the battery in dormancy mode, press reset button 1~6s and release, the system will be activated.

When the battery in working mode, press reset button 3~6s and release, the system will turn to dormancy mode.

When the battery in working mode, press reset button 6~10s and release, the BMS will be reset and all LED indicators will be light 1.5s at the same time.